Pueblo Chemical Agent Disposal Pilot Plant (PCAPP)
Sources Sought Announcement

I. General Requirements Statement

A. Introduction

The Under Secretary of Defense for Acquisition Technology & Logistics (USD AT&L) has selected Neutralization Biotreatment as the Agency's preferred alternative for the destruction of the chemical stockpile at the Pueblo Chemical Depot (PCD). Upon finalization of the Environmental Impact Statement (EIS), and the required waiting period, it is anticipated that the decision to implement this technology will be given. In preparation for this action, the Program Manager for the Assembled Chemical Weapons Assessment (PMACWA) has developed program requirements that will be the basis for a statement of work (SOW). It is the intent of the PMACWA, in its development of the SOW, to allow as much flexibility as possible in the System Contractor's (SC) approach and to empower the SC by allowing them to accept the responsibility/accountability of the program to the maximum extent possible. The SOW will use a performance-based approach with a minimum number of requirements so as not to impede the execution of the main objective of this program. In addition, the USD AT&L has directed that methods of accelerating the program be investigated. PMACWA fully embraces this direction and will challenge the SC to look at ways that the process and program may be accelerated. To maximize the probability of successful acceleration the SC in partnership with the governmet team will be required to work closely with the State and community in accomplishing any type of an accelerated program.

B. Background

Public Law 104-208 directed the Secretary of Defense to suspend funding for an incineration facility at Pueblo Chemical Depot (PCD) until the completion of an Assembled Chemical Weapons Assessment (ACWA). This assessment was conducted to identify and demonstrate technologies other than incineration to dispose of chemical weapons in the stockpile. Subsequent to evaluation and testing of several ACWA technologies, Public Law 105-261 assigned the responsibility for pilot testing of a selected technology to the Program Manager for ACWA.

C. Requirements

This document describes the requirements for the development and implementation of the selected technology for demilitarizing and disposing of mustard agent (HD) stored in projectiles at PCD in Colorado.

This requirement includes design, environmental permitting, construction, equipment acquisition and installation, systemization, pilot testing, operation, and closure of the Pueblo Chemical Agent Disposal Pilot Plant (PCAPP).
A contract will be put in place that will make the Systems Contractor (SC) the designer, constructor, and operator of the PCAPP. Accordingly, the SC will design, obtain environmental permits, construct all buildings and structures, acquire and install all equipment, systemize, pilot test, operate, and close the PCAPP.

1) Design, Construction, Equipment Acquisition and Installation, Systemization, Pilot Testing, Operation, and Closure of the PCAPP Facility

The SC will be responsible for all labor, materials, and resources necessary to develop and finalize the PCAPP engineering and design for the various buildings and systems, construction of the buildings and structures, acquisition and installation of the equipment, systemization of the equipment and systems, and pilot testing of the systems.
The SC will be responsible for the design, construction, systemization, personnel training, maintenance, pilot testing, and management of PCAPP in compliance with applicable regulatory requirements and environmental permits. The SC will also be responsible for preparing all submittal information for permits (e.g., RCRA, Air, Pueblo County Certificate of Designation, the National Pollutant Discharge Elimination System [NPDES]) required to construct, systemize, pilot test, operate, and close the facility.

Following completion of pilot testing and the approval to proceed with operations, the SC will demilitarize the remaining stockpile of munitions.

Following completion of operations, the SC will initiate decommissioning The SC will certify, subject to Government

confirmation, that the demilitarization facility is closed in accordance with the approved Facility Closure Plan and applicable environmental regulations.

To facilitate the management of the Design and Construction of the PCAPP, the SC will prepare the equivalent of a Design-Build Plan(DBP). The SC will use existing tools, procedures and process that the SC already has in place and would normally use to successfully execute a project of the complexity of the PCAPP. This document will present the full details of the SC's proposed approach to organizing, managing, and integrating the Design and Construction activities of PCAPP. The DBP should accommodate the following requirements using existing techniques routinely applied by the SC:

a) The DBP should address how the design will be performed. The DBP discussion should also include the internal and suggested points for government design review including documents to be submitted, submittal schedule, submittal format, and methodology for tracking and resolving comments. In lieu of a formal review process, the SC may offer an integrated gov't/SC personnel approach that eliminates the need for formal sequential reviews while bring to bear the gov't institutional knowledge from various prior development efforts.

b) The DBP should explain the interface between design and construction including sequencing and fast track plan, if any..

c) The DBP should account for any Systemization, Pilot Testing, or Operations activities that occur before Precommissioning.

d) The DBP should discuss the critical path for completing design and construction activities, the long lead items expected and their relationship to the critical path, and the construction schedule.

e) As part of the DBP, the SC shall perform a Technical Risk Assessment of its proposed design to determine those areas within the design that pose the greatest risk of causing a delay during any phase of the PCAPP program. The SC should discuss how these risks are being mitigated during Design Reviews and on an ongoing basis during the Design and through Pilot Testing. Where prototype or significantly modified equipment pose a high technical risk, the SC should consider fast tracking the design

and fabrication of this equipment so that it can be tested prior to Systemization.

f) The DBP should address the relationship to the Configuration Management(CM)Process and baselining.

g) The DBP should include the plan for subcontracting activities, including the management of those subcontracts.

2) Munitions To Be Processed

The inventory of munitions to be processed can be found in both the PMACWA and Program Manager for Chemical Demilitarization (PMCD) draft EIS for PCD, and will be included in the final EIS's when published.

3) Schedule and Throughput

The rate of processing for any munition and related materials should be determined by the SC. The schedules for design, construction, equipment acquisition and installation, systemization, piloting, operations, and closure are to be determined by the SC, subject to constraints imposed bythe Chemical Weapons Convention (CWC) Treaty, and by permitting requirements of Pueblo County, the State of Colorado, and the Federal Government.

4) Process Design Requirements

The SC will develop a process design to destroy all munitions and other materials associated with the chemical agent stockpile at PCD. In developing the process design, the SC must use the Army's approved method for mustard and energetic hydrolysis, and aerobic biological treatment for agent and energetics hydrolysates. For all other required unit operations the SC should, to the extent practical, make use of the testing performed by PMACWA, Project Manager for Alternative Technologies and Approaches (PMATA), and/or PMCD; the operational data from the Baseline facilities; and Hydrolysis/Biological Treatment and Hydrolysis/SCWO Engineering Design Packages prepared for PMACWA. Much of this information will be available through the PMACWA website at www.pmacwa.org.

5) Performance

Agent and energetic materials contained in the munitions must be destroyed. The definition of destruction is predicated on measurable concentration of agent and thiodiglycol for vapor and liquid streams and thermal treatment of solids. The mustard concentration in liquid streams must be reduced by hydrolysis to less than the detection limit for mustard before the stream can be released from an agent designated area. Allowable stack concentrations of mustard agent must be reduced to less than the permitted stack level by adsorption in an activated carbon bed and/or by thermal catalytic oxidation of residual agent. Solids must be treated to 5X conditions – continuously heating and maintaining the entire solid's body to a minimum of 1000^{o}F for 15 minutes – or an equivalent condition. Energetic materials, other than fuzes, must be deactivated by hydrolysis to a limit to be determined by the Government. Other agent-contaminated solid materials to be processed must be decontaminated to 5X conditions.

6) Buildings

The SC will be responsible for the design, construction, operation, and closure of all buildings necessary for the demilitarization of the munitions at PCD, with the exception of the Personnel Support Building (PSB) that will be designed and constructed by the Government

D. Government Furnished Equipment

The Government does not intend to furnish any equipment for the design, construction, operations, or closure of the PCAPP except for the infrastructure currently planned/under construction. All PCAPP material, equipment, and supplies will be "Contractor Furnished Equipment."

E. Program Management

The SC will be responsible for all Program Management resources, services, and activities necessary to support the contract activities throughout the life of the contract. Program Management activities include, but are not limited to, project control, project support and administration, progress and cost

reporting, and public involvement support. The SC will be responsible for the implementation of all program management requirements established in all approved plans and procedures. Program Management should be based on common sense approaches to utilize the SC's existing contract management procedures and information systems.

F. Public Involvement

Public involvement will be an essential element of PCAPP program. In addition to the SC's technical efforts to ensure a well designed, constructed, and operated facility, the success of the PCAPP program will depend on the input, cooperation, and support of the community at large. Open and honest communications with all stakeholders will provide the basis for public support and active participation. Although the Government Program Manager will make all final decisions, stakeholder input will be essential to the decision making process. Extensive opportunities for public involvement and public education will be planned throughout the program. Input will be sought from a variety of key stakeholders including elected and appointed officials, civic and business leaders, concerned citizens, special interest groups, neighborhood associations and regulatory agencies. The Government intends to educate the community on the PCAPP program; encourage public participation by providing multiple opportunities and vehicles for public input; and build a relationship between the community, the Government, and the SC to meet the needs of all involved.

G. Support Services

The SC will be responsible for providing all support services needed to administer, design, construct, acquire and install equipment, systemize, pilot test, maintain, operate, and close the PCAPP throughout the life of the contract. Support services apply to two or more phases of the facility life. Support services include, but are not limited to, the following activities: Quality Assurance/Quality Control, Information Management, Safety, Surety, Security, Training, Environmental Compliance, Permits, and Waste Management

II. Source Selection Approach

A. Full and Open Competition via a Request for Proposal (RFP).

B. Long-term, Multi-Phased Contract for Design, Construction, Equipment Acquisition and Installation, Systemization, Pilot Testing, Operations, and Closure of a Neutralization/Bio-Treatment Facility

C. Contract Type and Fee Structure: To be determined after One-on-One sessions with prospective offerors.

D. Evaluation Criteria: Management, Technical, Past Performance, and Cost/Price.

1. Management Approach. The offeror shall address the following:

a. Identification of principal contractors supporting the prime systems contractor, and major functions they will perform. Explanation of contractual relationships between the principal contractors.

b. Identify key personnel positions and the qualifications to be used to fill those positions.

c. Approaches to ensure coordination and integration of project phases.

d. Experience of the proposed contracting team working together on projects similar to Pueblo.

e. Public Involvement Approach to obtain stakeholder input for major project decisions.

f. Small Business Concerns Participation.

2. Technical Approach. The offeror shall address the following topics for design, construction, equipment acquisition and installation, systemization, pilot testing, operations, and closure:

a. Provide an overall explanation of the technical approach to dispose of the Pueblo Mustard Materiel in a safe and environmentally responsible manner.

b. Project Schedule and potential initiatives for acceleration of major project milestones.

c. Experience on projects of similar size and complexity.

d. Risk of the technical approach in the following areas and approaches to be employed to mitigate these risks

1) Safety
2) Environmental
3) Technical
4) Schedule
5) Cost

3. Past Performance: Offerors and major subcontractors will be evaluated against the following criteria.

a. Program Risk Management
b. Cost and Schedule Management Systems
c. Schedule Performance
d. Cost Control
e. Using Proposed Key Personnel, Corporate Teams, Key Subcontractors, and Outside Consultants
f. Small Business participation in prior projects.

Contractors and subcontractors with Chemical Demilitarization performance in the functional areas they will be responsible for on this project, will be evaluated on that performance. These contractors and subcontractors will only be required to address specific past performance issues specified by the contracting officer. Contractors and subcontractors without Chemical Demilitarization performance will be required to submit past performance information on projects of similar size and scope.

d. Cost/Price: The offerors shall submit a detailed cost proposal for the design phase of the project. For other phases of the project, offerors shall submit and will be evaluated on the overhead rates, G&A rates, and fees/profit for the prime and subcontractors illustrating the markups on each direct labor dollar cost.

E. Proposal Format: Oral presentations will be used to the maximum practicable extent. Final details will be provided with the RFP.

F. Discussions are anticipated to begin at the Oral Presentations. The government may have subsequent rounds of

discussions based on the information received at the initial presentations.

G. Contract Award: Award will be based on the above criteria, as finalized in the RFP. It is anticipated that the initially awarded requirements will be for the contractor to work with the government PCAPP Team to develop a comprehensive and coordinated execution design-build plan and associated cost proposal.

III. One-on-One Pre-solicitation Sessions.

A. The Contracting Officer will schedule One-on-One sessions in Edgewood MD with prospective offerors, at their request. The purpose of these sessions will be to obtain input from prospective offerors on enhancing the RFP, the source selection process, and project execution. The agenda will be as follows:

- Government Overview of the Project Requirements
- Government Overview of the Source Selection Process
- Contractor Identification of Barriers or Inhibitors to Efficient and Effective Contract Performance
  - o Management Requirements Issues and Recommendations
  - o Technical Requirements Issues and Recommendations
- Contractor Recommendations for Contract Type and Fee/Incentive Arrangement
- Other Contractor Comments on the Source Selection Approach

IV. Contract Award Milestones

1-3 May 2002	One-on-One Sessions
17 June 2002	Issue RFP
22-26 July 2002	Receive Proposals/Conduct Oral Presentations
30 August 2002	* Contractor Selection * Award Initial Requirement to Develop Detailed Design-Build Plan and Cost Proposal
13 December 2002	Award Design Requirement

V. Point of Contact: Marc Lemon, Contract Specialist, Operations Support Command, ATTN: AMSOS-CCE, Rock Island IL 21299-6000. Phone: 309-782-6348. Email: lemonm@osc.army.mil